

ABSTRACT

The present invention provides an olefin polymerization catalyst composed of a late transition metal complex exhibiting high olefin polymerization activity and also provides a method for producing the same. Furthermore, the present invention provides an olefin polymer prepared using the catalyst and a method for producing the olefin polymer. The olefin polymerization catalyst is composed of a fluorine-containing late transition metal complex having a structure represented by a specified general formula. The polymerization catalyst can be prepared in the reaction system.